



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION,
PESTICIDES AND
TOXIC SUBSTANCES

December 3, 2008

MEMORANDUM

SUBJECT; Status of Environmental Fate Data Requirements for 1,2-Benzisothiazolin-3-one (BIT) Manufacturing Use Product (MUP)

To: Marshall Swindell, Risk Manager
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A.I.Chemical Name: 1,2-Benzisothiazolin-3-one (BIT)
DP Barcode: D349038
Registrant: Lanxess Corporation
PC Code(s): 098901
Reg. No. 39967-AI
CAS #: 2664-33-5



2085003

Conclusions

Lanxess Corporation is requesting a manufacturing use product (MUP) for Preventol BIT 85 (1,2-benzisothiazolin-3-one, 86.25 %). The current 40 CFR 158 dated July 1, 2008 requires the submission of hydrolysis data only for an MUP. Hydrolysis data (45929801, 45929802) were submitted as part of the RED and were considered to be "supplemental" but not "acceptable" because the guideline followed was OECD Guideline 111, and not EPA/OPPTS Guideline No. 835.2110. However, the data from the previous studies are consistent with the most recent study for butyl-BIT (47329401) and therefore the data requirement is satisfied. .

In addition to the required hydrolysis data, the registrant submitted other fate data for Preventol BIT 85. These included aerobic soil metabolism (41199102, 41199103) and soil leaching-adsorption-desorption (41687102). While there is no record of formal review of these additional studies, the results are consistent with the structure of BIT and its likely breakdown products. In the presence of oxygen, BIT is generally non-persistent in soil and forms oxidized compounds with broken ring structures. Sorption to soil is moderate with Kd values of 1.2-9.6 ml/g. These studies are being formally reviewed now and the results will be forwarded shortly.

If there any questions, please contact Jim Breithaupt at 703-305-5925 or breithaupt.james@epa.gov.

Sign-off Date : 12/03/08
DP Barcode No. : D349038